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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/028,155	12/20/2001	Christy L. Lee	01-628US	3386
719	7590 07/17/2003			
CATERPILLAR INC.			EXAMINER	
100 N.E. ADAMS STREET PATENT DEPT.		UNDERWOOD, DO		, DONALD W
PEORIA, IL	16296490	`	ART UNIT	PAPER NUMBER
			3652	
			DATE MAILED: 07/17/2003	<b>;</b>

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
•	10/028,155	Lee					
Office Action Summary	Examiner	Art Unit					
	Underwood	3652					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
репод тог керіу — — — — — — — — — — — — — — — — — — —							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE, MONTH(S) FROM							
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed							
after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.							
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).							
Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•						
1) Responsive to communication(s) filed on	4/23/03						
	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
4) Claim(s) (-) is/are pending in the application.							
4a) Of the above claim(s) <u>ドラレ</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1-7,4-15/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
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13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some ★ c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 Other:							
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Activ	On Cumman						

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## **Detailed Action**

Claims 18, 19 and 20 stand withdrawn from further consideration pursuant to 37 1. CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

- The drawing is objected to under 37CFR1.83(a) as failing to show a substantially 2. flat reinforcing structure (claim 8) and a substantially cylindrical reinforcing structure (claim 9). Also 107 center of figure 1 should be 106. At best a sketch of any proposed amendment must be filed for review. The introduction of new matter should be guarded against.
- 3. In the specification, page 4, line 18, "Figures" should be --Figure--.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United
- 5. Claims 1,2, 3, 6, 8 and 9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Peterson.

Regarding claims 1, 2, 3, 6 and 8, plates 74 are synonymous with the claimed reinforcing structure.

Regarding claim 9, 122 is synonymous with the claimed reinforcing structure.

6. Claim 7 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Waka. Note 28 in figure 12 of Waka comprises a reinforcing structure as claimed.

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7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson.

Peterson is silient on how his elements are assembled; however, laser welding is

a conventional way of assembling metal structure and thus it would have been obvious

to use laser welding to assemble the elements in Peterson.

9. Claims 10-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Kobayashi et al in view of Peterson.

It would have been obvious to provide boom 5 in Kobayashi with plates and

provide the cylinder mounts on the plates to reinforce the boom in view of the teaching

in Peterson (plates 74).

10. Claim 5 is objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

11. Any inquiry concerning this communication should be directed to D. Underwood

at telephone number (703) 308-1113.

Underwood/vs July 9, 2003 Omacolly Unterwood 07/14/13 BONALD W. UNDERWOOD

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